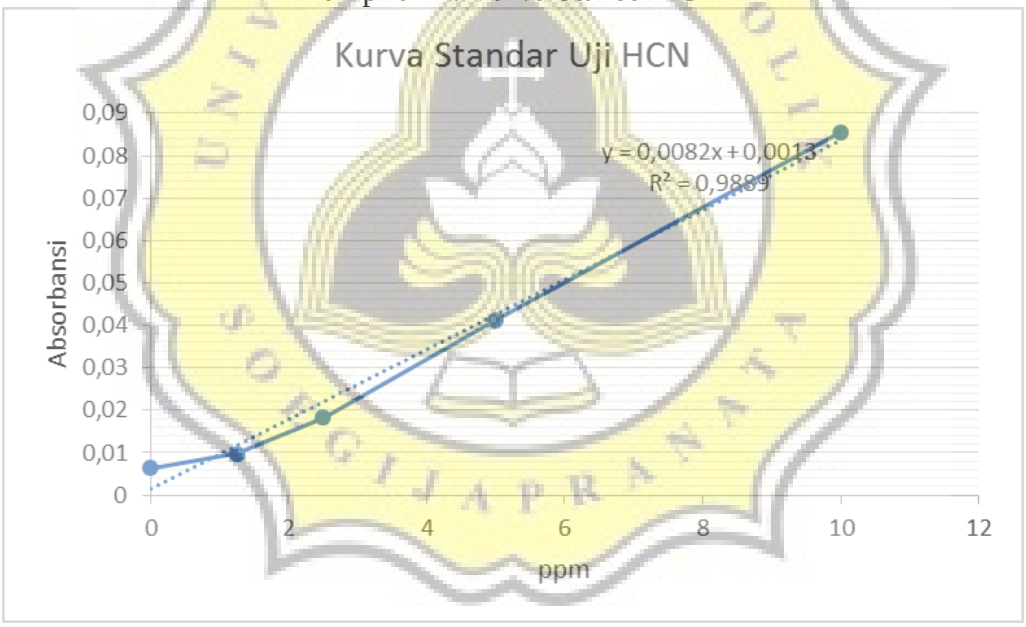
7. LAMPIRAN

Lampiran 1. Standar Mutu *Cookies* 01-2973-2011

Kriteria Uji	Klasifikasi
Kalori (kalori/ 100 gram)	Minimum 400
Air (%)	Maksmimum 5
Protein (%)	Minimum 5
Lemak (%)	Minimum 9,5
Karbohidrat (%)	Maksimum 70
Abu (%)	Maksimum 1,5
Serat Kasar (%)	Maksimum 0,5
Logam berbahaya	Negatif
Bau dan Rasa	Normal dan tidak tengik
Warna	Normal

Sumber: SNI 01-2973-2011

Lampiran 2. Kurva StandarHCN



Lampiran 3. *Scoresheet* Sensori

UJI RANKING HEDONIK

Nama panelis : Tanggal :

Jenis kelamin :

Produk : *Cookies*

Instruksi:

Berkumur-kumurlah dulu dengan menggunakan air mineral yang telah disediakan sebelum dan sesudah menguji sampel.

Dihadapan Anda terdapat sampel *Cookies*. Cicipilah setiap sampel lalu berikan nilai sesuai dengan tingkat kesukaan Anda pada parameter warna, aroma, rasa, tekstur, dan *overall* dari *Cookies* tersebut. Penilaian dilakukan mulai dari kiri ke kanan. Berilah nilai dari kisaran 1 (paling tidak disukai) hingga 5 (paling disukai). NILAI TIDAK BOLEH SAMA untuk sampel yang berbeda.

Parameter	Kode Sampel				
Warna					
Aroma					
Rasa					
Tekstur					
Overall					

Lampiran 4. Analisis Data Penelitian

1. Hasil Analisis Kimia

1.1. Uji Sensori

1.1.1. Perbandingan Keseluruhan Perlakuan

Test Statistics[a,b]

	WARNA	AROMA	RASA	TEKSTUR	OVERALL
Chi-Square	66,540	17,401	8,902	18,493	28,951
df	4	4	4	4	4
Asymp. Sig.	,000	,002	,064	,001	,000

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUAN

1.1.2. Perbandingan antara F0 dan F1

Test Statistics[a]

	WARNA	AROMA	RASA	TEKSTUR	OVERALL
Mann-Whitney U	1126,000	1912,500	1942,500	1938,500	1667,500
Wilcoxon W	3611,000	4397,500	4427,500	4423,500	4152,500
Z	-5,698	-2,289	-2,161	-2,185	-3,344
Asymp. Sig. (2-tailed)	,000	,022	,031	,029	,001

a. Grouping Variable: PERLAKUAN

1.1.3. Perbandingan antara F0 dan F2

Test Statistics[a]

	WARNA	AROMA	RASA	TEKSTUR	OVERALL
Mann-Whitney U	1171,000	2212,500	1818,000	1546,500	1255,500
Wilcoxon W	3656,000	4697,500	4303,000	4031,500	3740,500
Z	-5,497	-1,011	-2,695	-3,859	-5,087
Asymp. Sig. (2-tailed)	,000	,312	,007	,000	,000

a. Grouping Variable: PERLAKUAN

1.1.4. Perbandingan antara F0 dan F3

Test Statistics[a]

	WARNA	AROMA	RASA	TEKSTUR	OVERALL
Mann-Whitney U	860,500	2234,000	2162,500	1758,000	1513,000
Wilcoxon W	3345,500	4719,000	4647,500	4243,000	3998,000
Z	-6,805	-,919	-1,226	-2,954	-3,999
Asymp. Sig. (2-tailed)	,000	,358	,220	,003	,000

a. Grouping Variable: PERLAKUAN

1.1.5. Perbandingan antara F0 dan F4

Test Statistics[a]

	WARNA	AROMA	RASA	TEKSTUR	OVERALL
Mann-Whitney U	1108,500	2048,500	2374,500	1720,000	1818,000
Wilcoxon W	3593,500	4533,500	4859,500	4205,000	4303,000
Z	-5,775	-1,717	-,323	-3,120	-2,708
Asymp. Sig. (2-tailed)	,000	,086	,747	,002	,007

a. Grouping Variable: PERLAKUAN

1.1.6. Perbandingan antara F1 dan F2

Test Statistics[a]

	WARNA	AROMA	RASA	TEKSTUR	OVERALL
Mann-Whitney U	2435,000	2074,500	2390,000	1950,000	1943,500
Wilcoxon W	4920,000	4559,500	4875,000	4435,000	4428,500
Z	-,065	-1,602	-,257	-2,134	-2,166
Asymp. Sig. (2-tailed)	,948	,109	,797	,033	,030

a. Grouping Variable: PERLAKUAN

1.1.7. Perbandingan antara F1 dan F3

Test Statistics[a]

	WARNA	AROMA	RASA	TEKSTUR	OVERALL
Mann-Whitney U	**1690,000**	**2082,000**	**2292,500**	**2187,000**	**2183,000**
Wilcoxon W	**4175,000**	**4567,000**	**4777,500**	**4672,000**	**4668,000**
Z	**-3,250**	**-1,569**	**-,672**	**-1,124**	**-1,138**
Asymp. Sig. (2-tailed)	**,001**	**,117**	**,502**	**,261**	**,255**

a. Grouping Variable: PERLAKUAN

1.1.8. Perbandingan antara F1 dan F4

Test Statistics[a]

	WARNA	AROMA	RASA	TEKSTUR	OVERALL
Mann-Whitney U	1931,500	1579,000	2097,500	2115,000	2409,500
Wilcoxon W	4416,500	4064,000	4582,500	4600,000	4894,500
Z	-2,213	-3,713	-1,504	-1,427	-,172
Asymp. Sig. (2-tailed)	,027	,000	,133	,154	,863

a. Grouping Variable: PERLAKUAN

1.1.9. Perbandingan antara F2 dan F3

Test Statistics[a]

	WARNA	AROMA	RASA	TEKSTUR	OVERALL
Mann-Whitney U	1732,000	2447,000	2160,500	2282,000	2255,500
Wilcoxon W	4217,000	4932,000	4645,500	4767,000	4740,500
Z	-3,069	-,013	-1,233	-,716	-,832
Asymp. Sig. (2-tailed)	,002	,990	,217	,474	,406

a. Grouping Variable: PERLAKUAN

1.1.10. Perbandingan antara F2 dan F4

Test Statistics[a]

	WARNA	AROMA	RASA	TEKSTUR	OVERALL
Mann-Whitney U	1961,500	1788,500	1993,500	2387,000	1977,000
Wilcoxon W	4446,500	4273,500	4478,500	4872,000	4462,000
Z	-2,082	-2,817	-1,945	-,269	-2,015
Asymp. Sig. (2-tailed)	,037	,005	,052	,788	,044

a. Grouping Variable: PERLAKUAN

1.1.11. Perbandingan antara F3 dan F4

Test Statistics[a]

	WARNA	AROMA	RASA	TEKSTUR	OVERALL
Mann-Whitney U	2320,500	1834,000	2245,500	2387,500	2156,000
Wilcoxon W	4805,500	4319,000	4730,500	4872,500	4641,000
Z	-,559	-2,626	-,872	-,267	-1,254
Asymp. Sig. (2-tailed)	,576	,009	,383	,790	,210

a. Grouping Variable: PERLAKUAN

1.2. Uji Kimia

1.2.1. Uji Proximat

a. Uji Normalitas

Tests of Normality

	PERLAKUAN	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
KADARAIR	F0	,172	6	,200*	,928	6	,563
	F2	,186	6	,200*	,969	6	,885
	F3	,226	6	,200*	,900	6	,373
LEMAK	F0	,293	6	,116	,885	6	,292
	F2	,193	6	,200*	,938	6	,646
	F3	,185	6	,200*	,969	6	,886
ABU	F0	,190	6	,200*	,914	6	,462
	F2	,214	6	,200*	,882	6	,278
	F3	,194	6	,200*	,940	6	,661
PROTEIN	F0	,281	6	,151	,864	6	,202
	F2	,191	6	,200*	,925	6	,540
	F3	,272	6	,189	,911	6	,443
KARBOHIDRAT	F0	,213	6	,200*	,934	6	,611
	F2	,181	6	,200*	,907	6	,416
	F3	,266	6	,200*	,914	6	,465

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

b. Uji Homogenitas

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
KADARAIR	Based on Mean	1,005	2	15	,389
	Based on Median	,751	2	15	,489
	Based on Median and with adjusted df	,751	2	12,371	,492
	Based on trimmed mean	,965	2	15	,404
LEMAK	Based on Mean	,849	2	15	,447
	Based on Median	,831	2	15	,455
	Based on Median and with adjusted df	,831	2	10,005	,464
	Based on trimmed mean	,840	2	15	,451
ABU	Based on Mean	2,102	2	15	,157
	Based on Median	1,738	2	15	,209
	Based on Median and with adjusted df	1,738	2	10,781	,222
	Based on trimmed mean	2,092	2	15	,158
PROTEIN	Based on Mean	,629	2	15	,547
	Based on Median	,662	2	15	,530
	Based on Median and with adjusted df	,662	2	11,812	,534
	Based on trimmed mean	,647	2	15	,538
KARBOHIDRAT	Based on Mean	1,521	2	15	,250
	Based on Median	,675	2	15	,524
	Based on Median and with adjusted df	,675	2	8,784	,534
	Based on trimmed mean	1,409	2	15	,275

c. Hasil Uji Beda

KADARAIR

Duncan[a]

PERLAKUAN	N	Subset for alpha = 0.05	
		1	2
F0	6	2,8323	
F3	6		3,4419
F2	6		3,6523
Sig.		1,000	,223

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

ABU

Duncan[a]

PERLAKUAN	N	Subset for alpha = 0.05	
		1	2
F2	6	1,7028	
F0	6	1,7030	
F3	6		1,9141
Sig.		,998	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

LEMAK

Duncan[a]

PERLAKUAN	N	Subset for alpha = 0.05
		1
F0	6	23,0817
F3	6	24,5517
F2	6	24,8399
Sig.		,064

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

PROTEIN

Duncan[a]

PERLAKUAN	N	Subset for alpha = 0.05		
		1	2	3
F0	6	4,3191		
F2	6		7,5001	
F3	6			8,8134
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

1.2.2. Uji Kalium

a. Uji Normalitas

Tests of Normality

	perlakuan	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
kalium	F0	,224	6	,200*	,934	6	,614
	F2	,221	6	,200*	,916	6	,474
	F3	,307	6	,081	,821	6	,090

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

b. Uji Homogenitas

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
kalium	Based on Mean	3,310	2	15	,064
	Based on Median	2,447	2	15	,120
	Based on Median and with adjusted df	2,447	2	12,991	,125
	Based on trimmed mean	3,230	2	15	,068

c. Hasil Uji Beda

kalium

Duncan[a]

perlakuan	N	Subset for alpha = 0.05	
		1	2
F0	6	,2015	
F2	6	,2147	
F3	6		,2400
Sig.		,111	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

1.2.3. Uji HCN

a. Uji Normalitas

Tests of Normality

	PERLAKUAN	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
HCN	F2	,240	6	,200*	,949	6	,733
	F3	,279	6	,159	,929	6	,570

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

b. Uji Homogenitas

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
HCN	Based on Mean	4,375	1	10	,063
	Based on Median	2,392	1	10	,153
	Based on Median and with adjusted df	2,392	1	6,336	,170
	Based on trimmed mean	4,061	1	10	,072

c. Uji Beda F2 dan F3

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
HCN	Equal variances assumed	4,375	,063	,837	10	,422	,11563	,13810	-,19209	,42334
	Equal variances not assumed			,837	6,156	,434	,11563	,13810	-,22024	,45149

1.3. Uji Fisik

1.3.1. Uji Warna

a. Uji Normalitas

Tests of Normality

	PERLAKUAN	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
	F0	,256	6	,200*	,898	6	,365
L	F2	,242	6	,200*	,880	6	,271
	F3	,198	6	,200*	,935	6	,622
	F0	,197	6	,200*	,978	6	,941
a	F2	,226	6	,200*	,953	6	,765
	F3	,198	6	,200*	,907	6	,417
	F0	,267	6	,200*	,916	6	,476
b	F2	,225	6	,200*	,936	6	,629
	F3	,129	6	,200*	,990	6	,988

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

b. Uji Homogenitas

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
	Based on Mean	1,198	2	15	,329
	Based on Median	,890	2	15	,431
L	Based on Median and with adjusted df	,890	2	12,591	,435
	Based on trimmed mean	1,116	2	15	,353
	Based on Mean	,144	2	15	,867
	Based on Median	,101	2	15	,904
a	Based on Median and with adjusted df	,101	2	13,773	,904
	Based on trimmed mean	,133	2	15	,876
	Based on Mean	2,842	2	15	,090
	Based on Median	1,753	2	15	,207
b	Based on Median and with adjusted df	1,753	2	9,776	,224
	Based on trimmed mean	2,674	2	15	,102

c. Uji Beda

L

Duncan[a]

PERLAKUAN	N	Subset for alpha = 0.05		
		1	2	3
F3	6	61,7950		
F2	6		62,9583	
F0	6			64,1300
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

a

Duncan[a]

PERLAKUAN	N	Subset for alpha = 0.05		
		1	2	3
F0	6	3,1683		
F2	6		4,0633	
F3	6			4,2417
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

b

Duncan[a]

PERLAKUAN	N	Subset for alpha = 0.05		
		1	2	3
F0	6	16,3233		
F2	6		18,3833	
F3	6			20,3500
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

1.3.2. Uji *Hardness*

a. Uji Normalitas

Tests of Normality

	PERLAKUAN	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
HARDNESS	F0	,258	6	,200*	,859	6	,185
	F2	,186	6	,200*	,899	6	,371
	F3	,312	6	,070	,858	6	,184

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

b. Uji Homogenitas

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
HARDNESS	Based on Mean	,433	2	15	,657
	Based on Median	,316	2	15	,734
	Based on Median and with adjusted df	,316	2	10,700	,736
	Based on trimmed mean	,405	2	15	,674

c. Uji Beda

HARDNESS

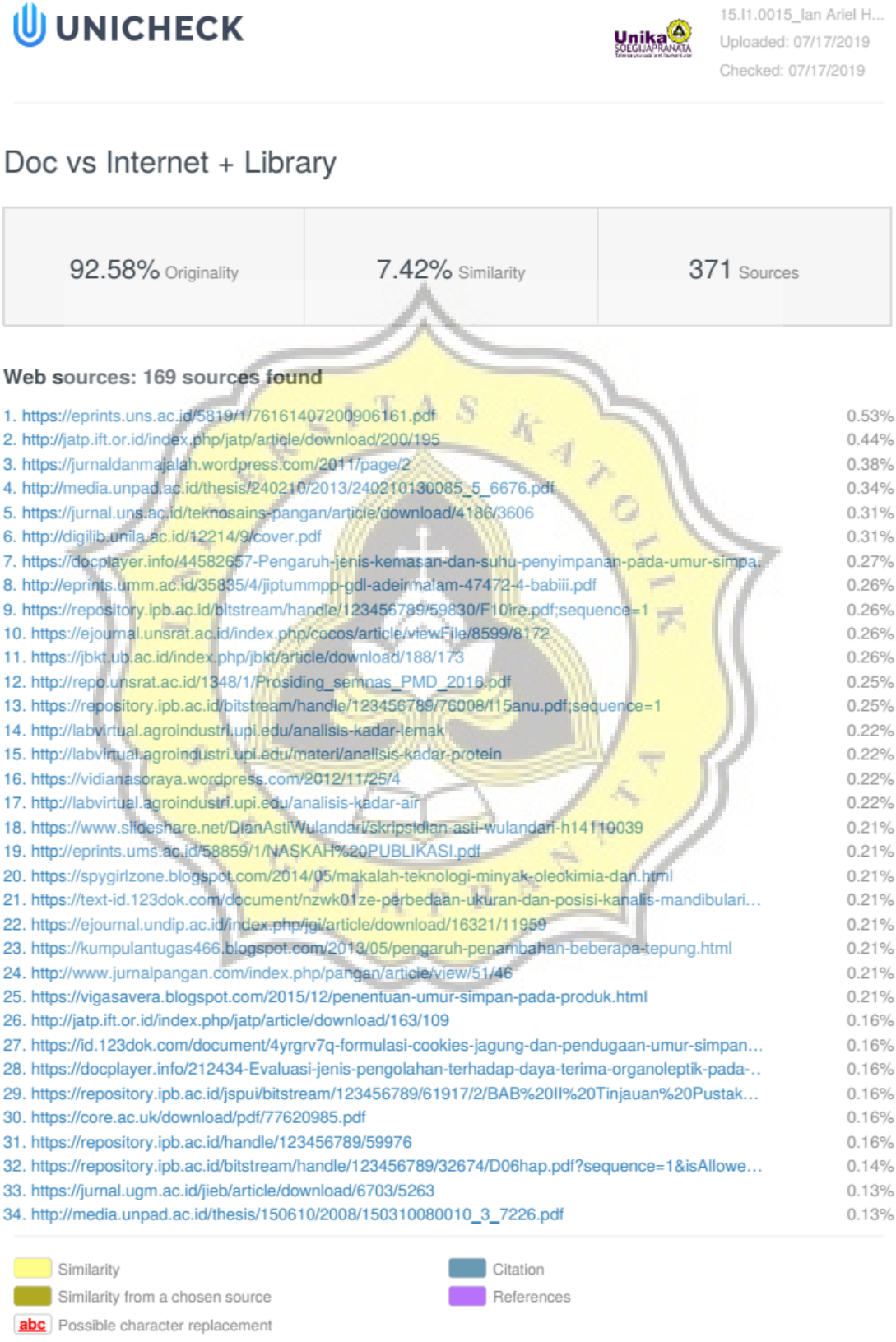
Duncan[a]

PERLAKUAN	N	Subset for alpha = 0.05		
		1	2	3
F0	6	821,1415		
F2	6		1562,9312	
F3	6			1623,8362
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 5. Hasil Cek Anti Plagiasi



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